## Genesµs™ Ethernet Transformers

Single Port Gigabit Isolation Modules Designed for Microsemi PHYs













US Patent Numbers: 5,656,985 6,297,721 B1 6,297,720 B1 6,320,489 B1 6,344,785 B1 6,662.431 B1

## **Product Features:**

- Designed exclusively for Microsemi<sup>™</sup>
  SimpliPHY<sup>™</sup>, Intellisec<sup>™</sup>, and VeriTime<sup>™</sup> PHYs
- Recommended by Microsemi
- Robust Patented Open Frame Construction
- 1500Vrms Hi-Pot
- UL/EN60950 recognized
- 100% Compliance Testing

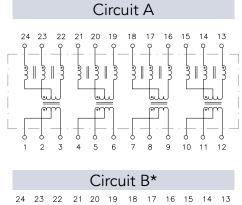
 $\underline{\mathsf{MicrosemiT^M}}, \mathsf{SimpliPHY^{TM}}, \mathsf{Intellisec^{TM}}, \mathsf{and}\, \mathsf{VeriTime^{TM}}\, \mathsf{are}\, \mathsf{registered}\, \mathsf{trademarks}\, \mathsf{of}\, \mathsf{the}\, \mathsf{Microsemi}\, \mathsf{Corporation}, \mathsf{MicrosemiT^{TM}}, \mathsf{MicrosemiT^{TM$ 

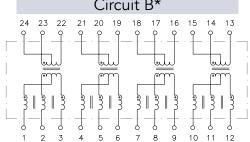
| Part Number    | Circuit | Data Rate   | PoE     | Temp.<br>Range | Turns Ratio | OCL (min) | CMR       |
|----------------|---------|-------------|---------|----------------|-------------|-----------|-----------|
| TG111-MSC13LF  | А       | 10/100/1000 | 802.3af | 0 to +70°C     | 1CT:1CT     | 350µH     | -40dB typ |
| TG111-MSCE13LF | А       | 10/100/1000 | 802.3af | -40 to +85°C   | 1CT:1CT     | 350µH     | -40dB typ |
| TG111-MSCHPLF  | В       | 10/100/1000 | 802.3at | -40 to +85°C   | 1CT:1CT     | 350µH     | -40dB typ |

Notes:

## 

Dimensions: inch [mm] Co-Planarity: 0.004 [0.10]





\*Pins 13-24 located on line side



2880 Lakeside Drive #116 Santa Clara, CA 95054 (650) 903-3800 www.haloelectronics.com HALO® Electronics is a leading supplier of high quality communication magnetics including signal transformers, filters, CMR chokes, PoE power transformers, DC/DC converters, and integrated Ethernet connectors. HALO's high quality leading edge technology solutions are manufactured in ISO9001 and ISO14001 factories.

<sup>1.</sup> Specific datasheets available